



## Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

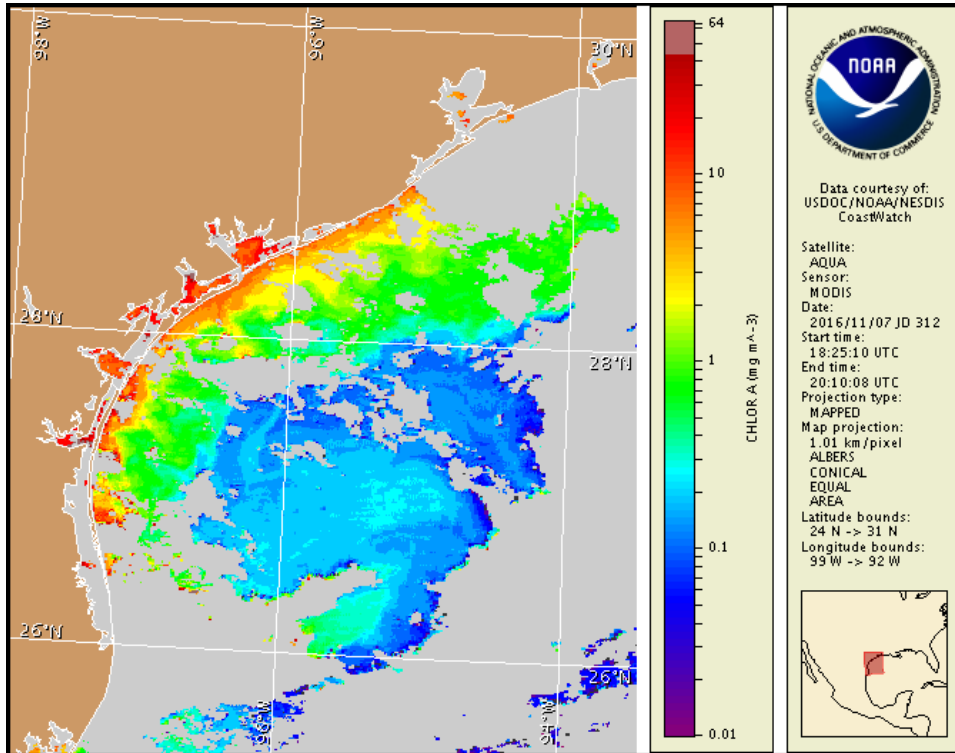
Thursday, 10 November 2016

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, November 7, 2016



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from October 31 to November 9: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

[http://tidesandcurrents.noaa.gov/hab/hab\\_publication/habfs\\_bulletin\\_guide.pdf](http://tidesandcurrents.noaa.gov/hab/hab_publication/habfs_bulletin_guide.pdf)

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at:

<http://www.tpwd.state.tx.us/landwater/water/enviroconcerns/hab/redtide/status.phtml>

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive:

<http://tidesandcurrents.noaa.gov/hab/bulletins.html>

## Conditions Report

*Karenia brevis* (commonly known as Texas red tide) ranges from not present to very low concentrations along the coast of Texas. No respiratory irritation is expected alongshore Texas Thursday, November 10 through Monday, November 14.

Check [http://tidesandcurrents.noaa.gov/hab/beach\\_conditions.html](http://tidesandcurrents.noaa.gov/hab/beach_conditions.html) for recent, local observations.

## Analysis

**\*\*Note:** As of today, November 10, bulletins will be issued once per week on Mondays based on the most recent *Karenia brevis* water sample data. Bulletins will be issued twice per week when conditions warrant. \*\*

*Karenia brevis* is no longer present in bloom concentrations along the Texas coast (TPWD; 11/8-11/10). In the Aransas Pass to PINS region, sampling from the Texas A&M University's Imaging FlowCytobot, located on the Port Aransas ship channel, indicate 'background' to 'very low b' *K. brevis* concentrations (TAMU; 11/7-11/10). No new samples have been received from the Corpus Christi Bay or Upper Laguna Madre regions, and no impacts have been reported from the area since 10/21 (TPWD). Detailed sample information and a summary of impacts can be obtained through Texas Parks and Wildlife Department at:

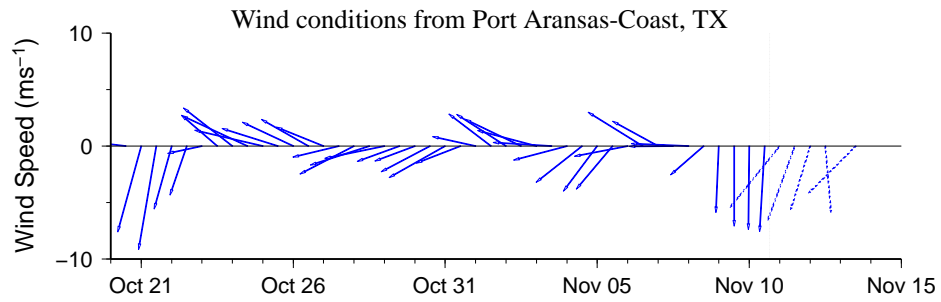
<http://www.tpwd.state.tx.us/landwater/water/enviroconcerns/hab/redtide/status.phtml>.

For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Recent MODIS Aqua ensemble imagery (11/7; shown left) is partially obscured by clouds along- and offshore Texas, limiting analysis. Patches of high to very high chlorophyll (5 to >10  $\mu\text{g/L}$ ) is visible along- and offshore from Freeport to the Padre Island National Seashore region.

Forecast models based on predicted near-surface currents indicate a maximum transport of 130 km south from the Port Aransas region from November 7-14.

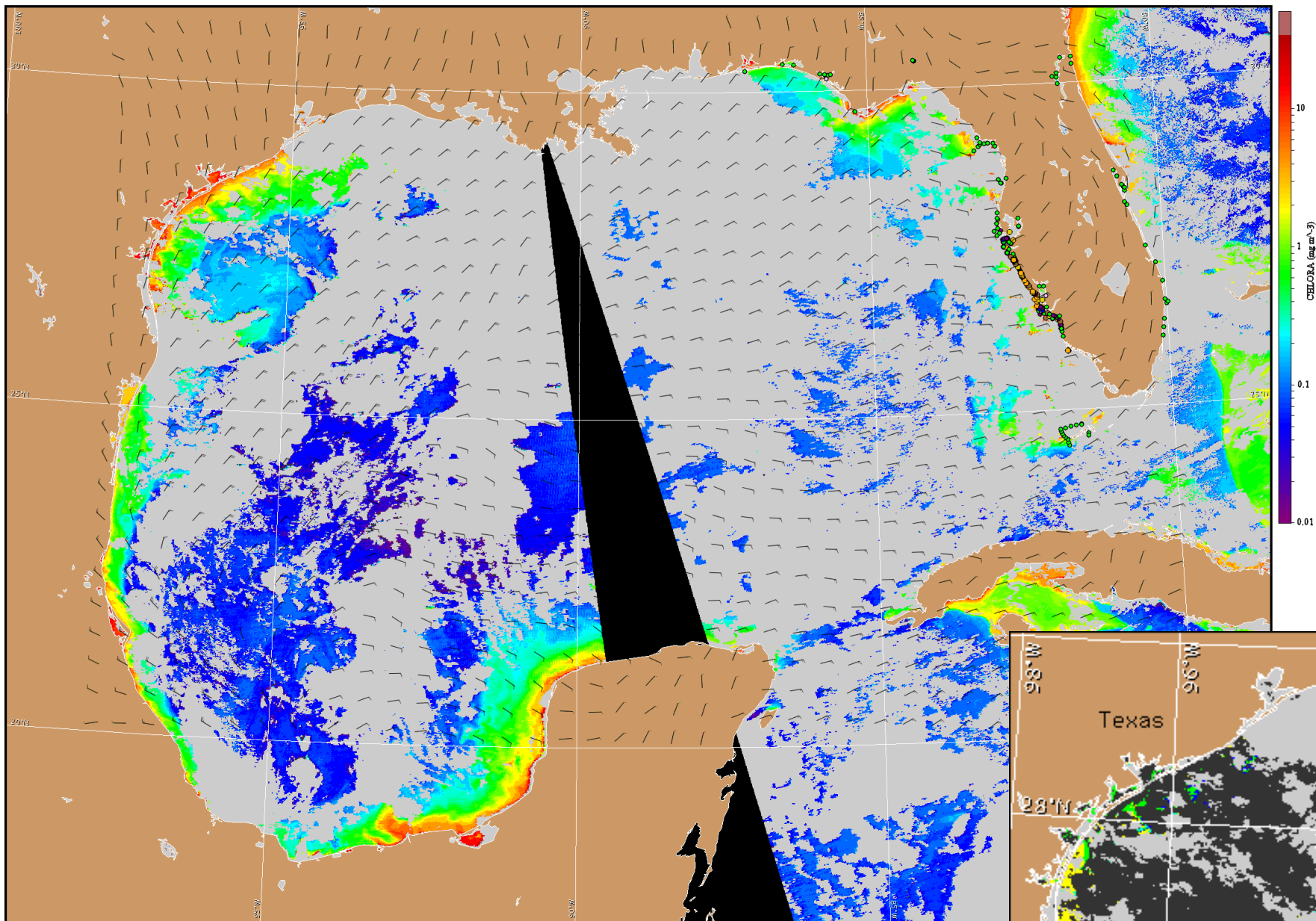
Yang, Davis



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

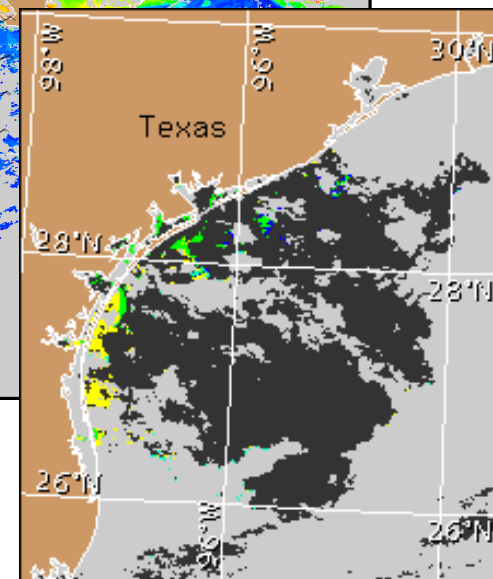
## Wind Analysis

**Baffin Bay to Port Aransas:** Northeast to north winds (10-20kn, 5-10m/s) today through Saturday. Northeast winds (5-10kn, 3-5m/s) Sunday through Monday night.



Satellite chlorophyll image and forecast winds for November 11, 2016 12Z with points representing cell concentration sampling data from October 31 to November 9: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

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Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).